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tion[1]. The heat index for *o Ceti* from the observation on December 6, 1921, was 7.7 mag.

The exceptionally large heat index for *α Herculis* which is in agreement with the observations of Coblentz[2] indicates that it radiates as a star of somewhat later spectral type than that usually assigned to it.

EDISON PETTIT,
S. B. NICHOLSON.

INTERFEROMETER OBSERVATIONS OF STAR DIAMETERS

Observations of stellar diameters made before July 14, 1921, were given in the August, 1921, number of these Publications. Additional measures have since been made on many stars, the greater part of the program being devoted to the calibration of the interferometer beam by means of early type stars having small diameters. Dr. Michelson and the writer will publish provisional results for a dozen stars as soon as adjustments have been made for the troublesome factors of seeing and magnitude.

The values for *Antares* and *Arcturus* remain as published before. *Aldebaran* has shown fringes up to the end of the beam and it is estimated their disappearance would take place in the neighborhood of 22 feet. *Betelgeuse* this season has shown no fringes beyond 8¼ feet. As compared with previous observations this might suggest an increase in its apparent diameter, possibly related to the variability in brightness of the star. The quality of the seeing, however, has been poor and no decision can be reached until further measurements have been made.

F. G. PEASE.

Mount Wilson Observatory, May 9, 1922.

SUMMARY OF MOUNT WILSON MAGNETIC OBSERVATIONS OF SUN-SPOTS FOR MARCH AND APRIL, 1922

During the last few months several groups with irregular polarity have been observed. Usually the few groups with reversed polarity have been small and unstable but recently some of these have been medium sized spots, stable and of average duration. In view of the approaching minimum this tendency toward reversal is of especial interest.

In March two complex groups, Nos. 1951 and 1953, were both visible on several days. To have two of this type present

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[1] *Publ. A. S. P.*, **34**, 133, 1922.
[2] *Lick Observatory Bulletin*, **8**, 104 (No. 266), 1914.